

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/656,811ADATE: 02/07/97
TIME: 16:32:23

INPUT SET: S15387.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

#7

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANT: Bartsch, Dusan
6 Kandel, Eric R.
7 Ghirardi, Mirella
8
9 (ii) TITLE OF INVENTION: A METHOD FOR ENHANCING LONG-TERM MEMORY IN A
10 SUBJECT AND USES THEREOF
11
12 (iii) NUMBER OF SEQUENCES: 20
13
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Cooper & Dunham LLP
16 (B) STREET: 1185 Avenue of the Americas
17 (C) CITY: New York
18 (D) STATE: New York
19 (E) COUNTRY: U.S.A.
20 (F) ZIP: 10036
21
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
27
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER:
30 (B) FILING DATE:
31 (C) CLASSIFICATION:
32
33 (viii) ATTORNEY/AGENT INFORMATION:
34 (A) NAME: White, John P.
35 (B) REGISTRATION NUMBER: 28,678
36 (C) REFERENCE/DOCKET NUMBER: 50865/JPW/JML
37
38 (ix) TELECOMMUNICATION INFORMATION:
39 (A) TELEPHONE: 212-278-0400
40 (B) TELEFAX: 212-391-0525
41
42
43 (2) INFORMATION FOR SEQ ID NO:1:
44
45 (i) SEQUENCE CHARACTERISTICS:
46 (A) LENGTH: 379 amino acids

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47 (B) TYPE: amino acid
 48 (C) STRANDEDNESS: single
 49 (D) TOPOLOGY: linear
 50

51 (ii) MOLECULE TYPE: peptide

52
53
54
55
56 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

57
 58 Met Glu Leu Asp Leu Trp Ser Glu Asp Phe Gln Leu Ala Arg Glu Trp
 59 1 5 10 15
 60
 61 Gly Leu Glu Met Pro Val Val Gln Thr Asp Gly Gln Phe Gly Asp Leu
 62 20 25 30
 63
 64 Lys Ser Thr Ser Arg His Gly Gly Asp Glu Ser Leu Ser Leu Gln Pro
 65 35 40 45
 66
 67 Gln Gly Ala Thr Leu Lys Leu Glu Pro Phe Glu Glu Asp Val Leu Gly
 68 50 55 60
 69
 70 Ala Glu Trp Met Glu Ser Ser Asp Leu Gly Ser Phe Leu Asp Ala Leu
 71 65 70 75 80
 72
 73 Gly Asp Asn His Glu Arg Leu His Pro Phe Glu Ser Asn Leu Leu Glu
 74 85 90 95
 75
 76 Phe Thr Ser Leu Ile Thr Pro Asp Asp Ser Thr Val Ser Lys Asp Ile
 77 100 105 110
 78
 79 Leu Ser Ser Thr Leu Gln Phe Pro Thr Gln Pro Val Asn Ile Pro Leu
 80 115 120 125
 81
 82 Tyr Ala Ser His Gly Ala Glu Asp Phe Ser Ala Glu Thr Glu Phe Glu
 83 130 135 140
 84
 85 Asn His Leu Ser Pro Pro Asp Ser Pro Glu Gln Val Ala Pro Val Ile
 86 145 150 155 160
 87
 88 Asn Leu Glu Pro Val Glu Leu Thr Ala Ser His Met Thr Val Ile Ser
 89 165 170 175
 90
 91 Pro Asp Gly Leu Leu Gly Gly Met Glu Leu Ala Ser Glu Ser Leu Thr
 92 180 185 190
 93
 94 Phe Thr Glu Leu Asp Phe Val Asn Phe Asn Asp Ser Ala Val Gly Ser
 95 195 200 205
 96
 97 Ile Gly Gly Ala Glu Glu Leu Leu Gly Ser Pro Leu Ser Val Asp Asp
 98 210 215 220
 99

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100 Val Glu Ser Thr Ile Ser Phe Ser Gly Pro Ser Ser Pro Glu Thr Ser
101 225 230 235 240
102
103 Gln Ser Ser Ile Ile Glu Ser Ser Pro Glu Leu Tyr Lys Val Ile Ser
104 245 250 255
105
106 Thr Ser Ser Ile Asp Ala Ser Lys Arg Phe Ser Pro Tyr Ser Arg Ser
107 260 265 270
108
109 Ser Lys Ser Lys Gln Ser Val Lys Thr Ser Asp Ala Lys Ala Pro Arg
110 275 280 285
111
112 Lys Thr Arg Thr Pro Ala Gln Pro Val Pro Glu His Val Ile Met Glu
113 290 295 300
114
115 His Leu Asp Lys Lys Asp Arg Lys Lys Leu Gln Asn Lys Asn Ala Ala
116 305 310 315 320
117
118 Ile Arg Tyr Arg Met Lys Lys Lys Gly Glu Ala Gln Gly Ile Lys Gly
119 325 330 335
120
121 Glu Glu Gln Glu Leu Glu Glu Leu Asn Thr Lys Leu Lys Thr Lys Val
122 340 345 350
123
124 Asp Asp Leu Gln Arg Glu Ile Lys Tyr Met Lys Asn Leu Met Glu Asp
125 355 360 365
126
127 Val Cys Lys Ala Lys Gly Ile Gln Leu Lys Met
128 370 375
129
130

```

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

```

146 Leu Asp Lys Lys Asp Arg Lys Lys Leu Gln Asn Lys Asn Ala Ala Ile
147 1 5 10 15
148
149 Arg Tyr Arg Met Lys Lys Lys Gly Glu Ala Gln Gly Ile Lys Gly Glu
150 20 25 30
151
152 Glu Gln Glu Leu Glu Glu Leu Asn Thr Lys Leu Lys Thr Lys Val Asp

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153 35 40 45
154
155 Asp Leu Gln Arg Glu Ile Lys Tyr Met Lys Asn Leu Met Glu Asp Val
156 50 55 60
157
158 Cys Lys Ala Lys Gly Ile Gln Leu Lys
159 65 70
160
161

162 (2) INFORMATION FOR SEQ ID NO:3:

163 (i) SEQUENCE CHARACTERISTICS:

- 164 (A) LENGTH: 8 base pairs
165 (B) TYPE: nucleic acid
166 (C) STRANDEDNESS: single
167 (D) TOPOLOGY: linear
168
169

170 (ii) MOLECULE TYPE: DNA (genomic)

171

172

173

174

175 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

176

177 TGACGTCA

8

178

179 (2) INFORMATION FOR SEQ ID NO:4:

180

181 (i) SEQUENCE CHARACTERISTICS:

- 182 (A) LENGTH: 14 base pairs
183 (B) TYPE: nucleic acid
184 (C) STRANDEDNESS: single
185 (D) TOPOLOGY: linear
186

187 (ii) MOLECULE TYPE: DNA (genomic)

188

189

190

191

192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

193

194 AGTATTGCGT CATC

14

195

196 (2) INFORMATION FOR SEQ ID NO:5:

197

198 (i) SEQUENCE CHARACTERISTICS:

- 199 (A) LENGTH: 14 base pairs
200 (B) TYPE: nucleic acid
201 (C) STRANDEDNESS: single
202 (D) TOPOLOGY: linear
203

204 (ii) MOLECULE TYPE: DNA (genomic)

205

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206

207

208

209 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

210

211 ACTATTGCGC AATC

14

212

213 (2) INFORMATION FOR SEQ ID NO:6:

214

215 (i) SEQUENCE CHARACTERISTICS:

216 (A) LENGTH: 20 base pairs

217 (B) TYPE: nucleic acid

218 (C) STRANDEDNESS: single

219 (D) TOPOLOGY: linear

220

221 (ii) MOLECULE TYPE: DNA (genomic)

222

223

224

225

226 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

227

228 TTCCGCTTTC CATAAGTCGA

20

229

230 (2) INFORMATION FOR SEQ ID NO:7:

231

232 (i) SEQUENCE CHARACTERISTICS:

233 (A) LENGTH: 20 base pairs

234 (B) TYPE: nucleic acid

235 (C) STRANDEDNESS: single

236 (D) TOPOLOGY: linear

237

238 (ii) MOLECULE TYPE: DNA (genomic)

239

240

241

242

243 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

244

245 ACCTGAAAAT GATATTGTAC

20

246

247 (2) INFORMATION FOR SEQ ID NO:8:

248

249 (i) SEQUENCE CHARACTERISTICS:

250 (A) LENGTH: 37 base pairs

251 (B) TYPE: nucleic acid

252 (C) STRANDEDNESS: single

253 (D) TOPOLOGY: linear

254

255 (ii) MOLECULE TYPE: DNA (genomic)

256

257

258

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SEQUENCE VERIFICATION REPORT
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Line

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Original Text